INNOTECH®

DS 5.51
August 2013

Models:
ISM4004 / ISM4008: 4 or 8 channels, Input Span and Start
ISM4204 / ISM4208: 4 or 8 channels, Output Span and Start

ISM4x0x
Signal Modifier

Specifications

Power Supply
Voltage: 24VAC ±10% @ 50/60Hz
Power Consumption: 3VA Max

Input
- Four or eight 0-10VDC

Outputs
ISM4004 / ISM4008
- Four or eight outputs - Direct Acting
- Option - Channels 4 & 8 may be Reverse Acting (Factory Modification)

ISM4204, ISM4208
- Four or eight outputs - Direct Acting with a span < 11VDC

Terminal Identification

1, 3, 5, 7	Signal inputs.
2, 4, 6, 8	0-10VDC control output.
9	Common and 0VAC supply.
10	24VAC supply.
11, 13, 15, 17	Additional signal inputs on ISM4xx8.
12, 14, 16, 18	Additional signal outputs on ISM4xx8.

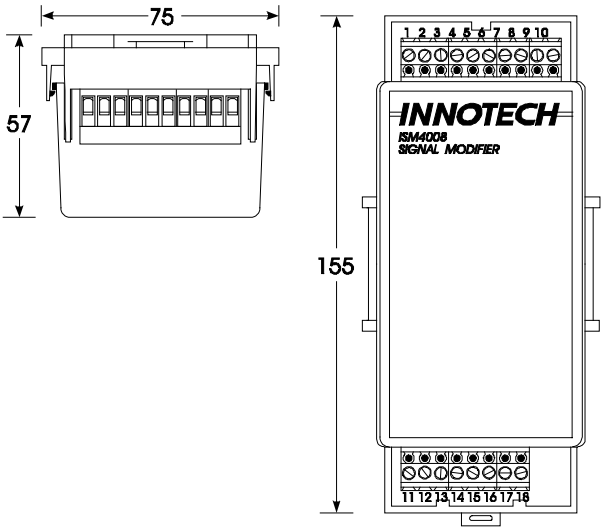
Temperature Ratings
- Storage: 0-50°C non-condensing
- Operating: 0-40°C non-condensing

Enclosure
Manufactured from an ignition resistant grade of ABS which meets the requirements of AS2420.
Colour: Grey
Mounting: DIN rail mounted

Installation
1. Mount controller is a dry and reasonably clean location free or excessive vibration.
2. Fit to DIN Rail.
3. Wire in accordance with INNOTECH connection diagrams and local bylaws or refer to your local distributor.

Wiring
1. Earth one side of the 24VAC at the transformer.
2. Connect the EARTHED side of the 24VAC to terminal 9.
3. DO NOT connect 24VAC to terminals 1 through 8 and 11 through 18.

Din Rail Mounted Enclosure
The INNOTECH enclosure is designed to provide tight positive locking to varying thicknesses of DIN rail. When fitting to thick DIN rail, it may be necessary to remove the packing tabs on the back of the base.
Lugs on each side of the base ensure that correct spacing is maintained between units on the same DIN rail.



Application
The INNOTECH signal modifiers allow control devices with different input and output voltage ranges to be interconnected.
They also provide a cost effective method of signal splitting for staging of fixed input span control devices. i.e. 1 x 0 to 10VDC input = 2 x 0 to 10VDC outputs in sequence.

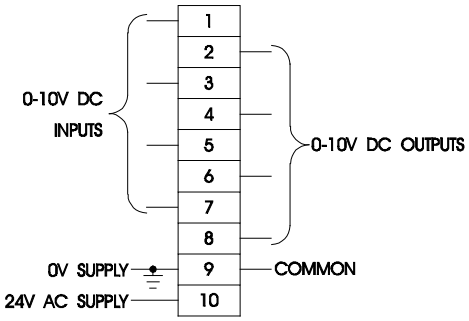
Features
- Interface to a wide range of devices which use a DC control signal
- A range of input/output voltage configurations to interface between the most common systems
- Inputs can be linked to produce a split output staged system
- Wide range of applications
- The INNOTECH enclosure saves space and reduces installation time

Operation Of ISM40xx Series
This series is designed to produce a 0-10V control signal output, which is proportional to a segment of the input control signal. Thus the operating range of the input Control Signal is less than or equal to 10V.
The internal adjustments on each channel are:
- "START" - the DC voltage that must be applied to the input to cause the output to start to rise above 0V.
- "SPAN" - the DC voltage change at the input that will cause the output to change from 0V to +10VDC.

Operation Of ISM42xx Series
This series is designed to produce an output of less than or equal to 10VDC from a 0-10VDC Control Signal.
The internal adjustments on each channel are:
- "START" - the DC voltage that is present at the output when the input is 0V.
- "SPAN" - the DC voltage change at the output caused by a 0V to +10VDC change at the input.

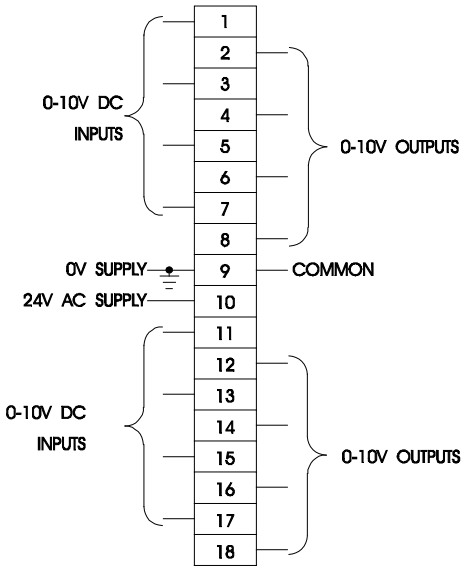
STANDARD CONNECTION

ISM4004
ISM4204



STANDARD CONNECTION

ISM4008
ISM4208



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